

Recovery Plan Action Status

Plan Name: Blowout Penstemon

Plan Status: Final

Plan Date: 17-Jul-92

Lead Agency: USFWS

Lead Office: Nebraska Ecological Services Field Office

(308)

362-6468)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Blowout penstemon (Penstemon haydenii)	1	1	Monitor populations	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, The Nature Conservancy, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Management: Population Monitoring, Management: Propagation, Management: Reintroduction, Research: Demographic Studies, Research: Disease	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Monitor status and trend
Blowout penstemon (Penstemon haydenii)	2	10	Prevent overgrazing	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, The Nature Conservancy, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Depredation Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Research: Habitat Requirements, Research: Management Techniques, Research: Population Surveys	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Monitor potential problem areas

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Blowout penstemon (Penstemon haydenii)	2	11	Prevent pesticide damage	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USDA Animal and Plant Health Inspection Service, The Nature Conservancy, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Depredation Control, Management: Disease Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Research: Competition, Research: Disease, Research: Environmental Contaminants, Research: Habitat Requirements, Research: Management Techniques, Research: Predation	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Costs absorbed by Tasks 3.1 and 5.11
Blowout penstemon (Penstemon haydenii)	2	12	Protect from off-road vehicles	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, Bureau Land Management, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Management: General, Management: Land Use, Management: Population Monitoring, Other: Regulations	Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Done with existing personnel and funds

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Blowout penstemon (Penstemon haydenii)	2	13	Minimize natural threats	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USDA Animal and Plant Health Inspection Service, The Nature Conservancy, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Management: Depredation Control, Management: Disease Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Research: Competition, Research: Demographic Studies, Research: Disease, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Predation	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Costs absorbed by Tasks 3.1 and 5.11
Blowout penstemon (Penstemon haydenii)	2	14	Survey for new populations and suitable habitat	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, Bureau Land Management, U.S. Forest Service, Nebraska National Forest	Management: General, Management: Land Use, Management: Planning, Management: Population Monitoring, Research: Habitat Requirements, Research: Habitat Status	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Identify and ground search potential habitat

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Blowout penstemon (Penstemon haydenii)	2	15	Develop management techniques	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Management: Depredation Control, Management: Disease Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Management: Propagation, Management: Reintroduction, Research: Competition, Research: Demographic Studies, Research: Disease, Research: Environmental Contaminants, Research: Habitat Requirements, Research: Management Techniques, Research: Migration, Research: Predation, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Methods to maintain active blowouts and viable populations

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Blowout penstemon (Penstemon haydenii)	2	16	Determine natural reproduction factors	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Management: Depredation Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Predator and Competitor Control, Management: Propagation, Research: Competition, Research: Demographic Studies, Research: Disease, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Migration, Research: Population Surveys, Research: Predation, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Methods to increase natural recruitment
Blowout penstemon (Penstemon haydenii)	2	17	Determine soil seed bank and viability	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Habitat Maintenance and Manipulation, Management: Propagation, Management: Reintroduction, Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Migration, Research: Population Surveys, Research: Propagation	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Costs included in Task 3.31

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Blowout penstemon (Penstemon haydenii)	2	18	Determine population parameters	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Depredation Control, Management: Disease Control, Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control, Management: Propagation, Management: Reintroduction, Research: Competition, Research: Demographic Studies, Research: Disease, Research: Habitat Requirements, Research: Management Techniques, Research: Migration, Research: Population Surveys, Research: Predation, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Costs included in Task 3.31
Blowout penstemon (Penstemon haydenii)	2	19	Develop propagation techniques	Complete	Prior to FY 1995	Prior to FY 1995	Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Management: Propagation, Research: Propagation	Contract, Graduate Student, Internal Field Assistance, Species Expert	Partially completed

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Blowout penstemon (Penstemon haydenii)	1	2	Study pollinators, insect pests and diseases	Complete	Prior to FY 1995	FY 1995 - FY 1999	Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife enhancement	Management: Depredation Control, Management: Disease Control, Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control, Management: Propagation, Management: Reintroduction, Research: Competition, Research: Disease, Research: Predation, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Partially completed
Blowout penstemon (Penstemon haydenii)	2	20	Determine genetic variability	Complete	Prior to FY 1995	FY 1995 - FY 1999	Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver	Research: Genetics	Contract, Graduate Student, Species Expert	Will allow maximum diversity in new populations
Blowout penstemon (Penstemon haydenii)	2	21	Reintroduce and introduce new populations	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Propagation, Management: Reintroduction, Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Establish up to eight populations

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Blowout penstemon (Penstemon haydenii)	2	22	Manage large populations	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Depredation Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Research: Demographic Studies, Research: Management Techniques, Research: Population Surveys	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Develop and implement management plans
Blowout penstemon (Penstemon haydenii)	2	23	Manage populations in non-typical habitat	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Management: Propagation, Management: Reintroduction, Research: Competition, Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Costs included in Task 5.12

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Blowout penstemon (Penstemon haydenii)	2	24	Manage newly established populations	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, The Nature Conservancy, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Management: Propagation, Management: Reintroduction, Research: Competition, Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Migration, Research: Population Surveys, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Costs included in Task 5.12
Blowout penstemon (Penstemon haydenii)	2	25	Public education	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Other: Administration, Other: Information and Education, Other: Law Enforcement	Contract, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Administration costs, education materials

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Blowout penstemon (Penstemon haydenii)	3	26	Protect from illegal collecting	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Land Use, Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations	Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Costs included in Task 3.1
Blowout penstemon (Penstemon haydenii)	3	27	Protect from development	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Land Use, Management: Planning, Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations, Research: Demographic Studies, Research: Environmental Contaminants, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys	Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert	Done with existing personnel and funds

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Blowout penstemon (Penstemon haydenii)	3	28	Study seed dispersal and predation by wildlife	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife enhancement	Management: Depredation Control, Management: Habitat Maintenance and Manipulation, Management: Predator and Competitor Control, Management: Propagation, Management: Reintroduction, Research: Demographic Studies, Research: Habitat Requirements, Research: Migration, Research: Population Surveys, Research: Predation	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Costs included in Task 3.31
Blowout penstemon (Penstemon haydenii)	3	29	Determine flowering requirements in greenhouse	Complete	Prior to FY 1995	Prior to FY 1995	Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver	Research: Competition, Research: Habitat Requirements, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Species Expert, Volunteer	Would provide seed source

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Blowout penstemon (Penstemon haydenii)	1	3	Manage small populations	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, The Nature Conservancy, Bureau Land Management, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Depredation Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Management: Propagation, Management: Reintroduction, Research: Competition, Research: Demographic Studies, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Migration, Research: Population Assessment, Research: Population Surveys, Research: Propagation, Research: Reintroduction	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Develop and implement management plans
Blowout penstemon (Penstemon haydenii)	1	4	Maintain seed bank	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver	Management: Propagation, Research: Genetics, Research: Population Surveys, Research: Propagation	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Maintains genetic variability

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Blowout penstemon (Penstemon haydenii)	2	5	Protect natural populations	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement	Acquisition, Management: Depredation Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Other: Information and Education, Other: Law Enforcement, Research: Competition, Research: Demographic Studies, Research: Disease, Research: Environmental Contaminants, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Population Surveys, Research: Predation	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Coincides with Task 3.1
Blowout penstemon (Penstemon haydenii)	2	6	Protect natural populations	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, The Nature Conservancy, Bureau Land Management, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Management: Reduce Threats in/to Marine Habitats	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Species Expert, Volunteer	Provide for the development and implementation of management plans

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Blowout penstemon (Penstemon haydenii)	2	7	Protect reintroduced and introduced populations	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, The Nature Conservancy, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Depredation Control, Management: Disease Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Management: Reintroduction, Other: Information and Education, Other: Law Enforcement, Other: Regulations, Research: Competition, Research: Demographic Studies, Research: Disease, Research: Environmental Contaminants, Research: Management Techniques, Research: Population Surveys, Research: Predation	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Develop and implement management plans
Blowout penstemon (Penstemon haydenii)	2	8	Enforce laws and regulations	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Other: Information and Education, Other: Law Enforcement, Other: Regulations	Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Done with existing personnel and funds

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Blowout penstemon (Penstemon haydenii)	2	9	Eliminate disturbance factors	Ongoing Current	Prior to FY 1995		Nebraska Game and Parks Commission, The Nature Conservancy, Soil Conservation Service , USFWS Regional Office 6 - Denver, U.S. Fish and Wildlife Service, Division of Refuges and Wildlife, U.S. Fish and Wildlife enhancement, U.S. Forest Service, Nebraska National Forest	Acquisition, Management: Depredation Control, Management: Disease Control, Management: Habitat Maintenance and Manipulation, Management: Land Use, Management: Planning, Management: Predator and Competitor Control, Other: Administration, Other: Information and Education, Other: Law Enforcement, Other: Regulations, Research: Competition, Research: Demographic Studies, Research: Disease, Research: Environmental Contaminants, Research: Habitat Requirements, Research: Habitat Status, Research: Management Techniques, Research: Predation	Contract, Graduate Student, Internal Administrative, Internal Field Assistance, Internal Technical Assistance, Species Expert, Volunteer	Factors affecting blowout development